

Northamptonshire County Council.

EDUCATION COMMITTEE.

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NINTH  
ANNUAL REPORT

ON THE

MEDICAL INSPECTION OF  
CHILDREN IN SCHOOLS  
FOR THE YEAR 1916,

BY

CHARLES E. PAGET,

County Medical Officer of Health.

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**Prefatory Remarks.** I have the honour herewith to present the Ninth Annual Report on the Medical Inspection of Children, except where stated otherwise, in the Public Elementary Schools of the Administrative County of Northampton, exclusive of those situated in the Urban District of Kettering, where elementary education is administered separately. The period covered by the report is the year 1916.

(a) STAFF. As in the year 1915, owing to the demand for medical men in the naval and military services, it was practically impossible for School Medical Inspection to be carried out on the scale in operation before the war. Since the acceptance of a Commission in the Royal Army Medical Corps by Dr. Mason, School Medical Officer, in April, 1915, the entire work of medical inspection has been carried out by Miss Keers alone. It speaks greatly for her energy and capacity that there is so much to record for the year 1916.

(b) TREATMENT OF BLIND, AND DEAF AND DUMB CHILDREN. Particulars are submitted herewith in tabular form respecting the Institutional Treatment of children who have been found to be wholly Blind or Deaf and Dumb. It appears that there was one more child under treatment than in the year 1915. One Blind child was removed from an Institution on reaching the age of 16 years, and another was transferred to a Deaf and Dumb Institution ; a further case of a Blind child was taken up by the Committee. Three Deaf and Dumb children were withdrawn from Institutions on reaching the age of 16 years ; four new cases have come in. The total number of children under treatment at the end of the year was 40.

(c) PHYSICAL TRAINING CLASSES. Mr. J. L. Holland, the Secretary of the Education Committee, has informed me that the continuance of the War with the resultant withdrawal of more and more young men, including Evening School Teachers, from civil life ; the great demand for juvenile labour ; and the stringent lighting regulations ; have all combined, with the general feeling of unsettlement, to bring about a considerable falling off in the number of Evening Schools, as compared with previous sessions, and a consequent reduction in the number of Physical Training Classes. The 26 classes of 1915 were reduced during 1916 by one



No.	Initials of Child.	Residence of Parent or Guardian.	Name of Institution.	Date of Entering Institution.	Date of Leaving Institution.	Annual Charge by Institution.	Weekly Contribution of Parent.	Report upon Case.
1	BLIND CHILDREN. Florence E. E.	Hackleton .....	Royal Institution for Blind, Birmingham	20 Jan., '15	28 June, '21	£ 30	3/-	Makes steady progress, especially in handwork.
2	J. W. C. ....	Desborough .....	School for the Blind, Liverpool.	29 Nov., '10	22 May, '17	26	1/6	Handwork still very good. Has advanced a class lately.
3	Florence C. ....	Rushden .....	Do.	29 Mar., '12	3 Apl., '19	26	1/6	Has made steady improvement in every way.
4	N. F. B. ....	Bulwick.....	Do.	25 Oct., '12	22 Feb., '19	26	1/6	Progress has improved. Manual work still very good.
5	R. F. ....	Cogenhoe .....	Do.	25 Oct., '12	10 Mar., '21	26	1/-	Makes steady progress. Interested in all his work. Especially music.
6	W. C. ....	Little Weldon .....	Do.	7 Jan., '13	4 Apl., '21	26	1/-	Improving in School work and in handwork.
7	Ellen J. ....	Weedon .....	Do.	30 Jan., '14	17 June, '16	26	2/-	Left before further report was due.
8	W. F. H. L. ....	Stanion .....	Do.	24 Sept., '15	17 Feb., '21	26	6d.	Somewhat backward. Improvement shown in mental and manual work.
9	W. E. D. ....	Duddington.....	Do.	11 Jan., '16	4 Oct., '25	26	1/-	Illness of various kinds has interfered greatly with school work.
10	Florence A. L....	Wollaston .....	Henshaw's Blind Asylum, Manchester	25 Mar., '12	24 June, '16	26	1/6	No later report received.
11	C. A. B. ....	Bulwick .....	Yorkshire School for the Blind	27 Oct., '13	11 Nov., '21	26/5/-	1/-	Excellent report; but impediment in speech prevents fluency in recitation.
12	Vera G. A. ....	Broughton .....	Hastings & St. Leonards Blind School	12 Aug., '13	2 July, '16	38	9d.	Physical condition prevents progress.
13	E. S. ....	Charlton .....	Brighton Asylum for the Instruction of the Blind	13 Jan., '14	29 June, '22	27	1/-	Reliable and thorough in all his work.
14	W. T. ....	Burton Latimer .....	Do.	17 Jan., '14	14 Mar., '21	27	2/-	Painstaking and intelligent. Report very good.
15	A. H. R. ....	Castle Ashby .....	London Society for teaching and training Blind	16 Jan., '14	5 Oct., '21	33	2/-	Progress reported last year is still continued.
16	Kate S. ....	Lowick .....	London Society for teaching and training Blind	14 Oct., '14	11 Dec., '21	33	1/-	Works well, but learns slowly. Manual work very good.
17	Annie F. ....	Cogenhoe .....	Do.	6 Jan., '15	10 Mar., '24	33	1/-	Very intelligent, makes excellent progress.
18	R. H. ....	Braunston .....	Normal College of Music for the Blind, Norwood	5 Jan., '15	31 Dec., '17	(a)	...	Has made substantial progress in Piano tuning since the last report.
19	J. M. G. ....	Kings Cliffe .....	Royal Midland Institution for Blind	24 Apl., '15	31 July, '17	(b)	1/-	Works diligently and is now making good progress in Piano tuning.
20	Dorothy L. ....	Easton .....	Barclay Home for Blind Girls, Brighton	20 Aug., '15	31 July, '17	30	2/-	Has little mental capacity. Pains-taking.
21	DEAF AND DUMB CHILDREN. A. S. ....	Gretton .....	Royal Institution for Deaf and Dumb, Birmingham	14 Nov., '08	17 Apl., '16	33	5/-	Left before further report was due.
22	S. W. ....	Silverstone .....	Do.	23 Mar., '16	25 Mar., '25	33	2/6	Makes fair progress in brain and hand work.
23	Doris R. ....	Duston .....	Do.	26 Apl., '16	24 Sept., '20	33	1/-	Progress good, has fair command of language.
24	W. F. A. A. ...	Rushden .....	Do.	5 May, '16	5 Nov., '17	33	4/-	Shows considerable ability in composition, is learning lip reading.
25	Annie L. P. ....	Crick .....	Royal Institution for the Deaf and Dumb, Derby	19 Jan., '09	18 Dec., '17	33	Nil.	Needlework is good, other subjects very indifferent.
26	Florence E. H....	Rushden .....	Do.	18 Nov., '11	15 Oct., '20	33	1/-	Improved report, most subjects notified as "good."
27	Ethel R. ....	Long Buckby .....	Do.	11 Jan., '12	10 Feb., '24	33	3/-	Attainments fair in all subjects.
28	Edith R. ....	Raunds .....	Do.	29 Aug., '13	6 June, '22	33	1/-	Report very satisfactory, all subjects "good" or "very good."
29	L. H. ....	Great Brington .....	Do.	16 Mar., '15	13 Oct., '22	33	6d.	Continues to make progress in speech, writing, and numbers.
30	Dora W. ....	Welford .....	Royal Schools for the Deaf and Dumb, Manchester	20 Oct., '09	4 May, '18	32	1/-	Work shows general improvement.
31	Gertrude W. ...	Ringstead .....	Do.	17 Jan., '10	2 Dec., '18	32	1/-	Progress improving, memory not retentive.
32	Dorothy M. S....	Corby .....	Do.	24 Jan., '10	30 Aug., '17	32	1/-	Industrious, using good brain power well.
33	J. T. ....	Wellingborough .....	Do.	16 Jan., '11	28 July, '19	32	1/-	Report shows improvement. Handwork better.
34	C. J. ....	Harpole.....	Do.	1 May, '11	18 Apl., '20	32	Nil.	Report better than last year, somewhat brighter though still slow.
35	G. H. ....	Finedon .....	Do.	11 Jan., '13	13 Feb., '21	32	2/-	Intelligent, reliable and thorough in his work.
36	G. A. R. ....	Woodford, Thrapston	Do.	7 Apl., '13	30 Sept., '21	32	1/-	Memory improving, more active in movements, lacks concentration.
37	A. E. P. ....	Brackley .....	Do.	6 Sept., '15	30 May, '24	32	1/-	Attainments small, but interested and willing.
38	C. V. ....	Culworth .....	Do.	6 Sept., '15	6 Feb., '22	32	1/-	Willing and industrious. Mental ability below average.
39	L. G. ....	Grendon .....	Do.	17 Jan., '16	10 July, '24	32	2/-	Progress fair in short time at Institution.
40	Edith M. J. ....	Wellingborough .....	Deaf and Dumb Institution, Brighton	4 Sept., '16	14 Mar., '21	30	2/-	

(a) Granted a Scholarship of £20 for a third year.

(b) Granted a Scholarship of £30 for a second year.



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half, the Schools at which instruction was carried on being those at Aynho, Higham Ferrers, Irthlingborough, Kettering, Rothwell and Wellingborough. Of the 13 classes, 11 were for women and girls. The average attendance per class was about 14, which, in the circumstances, may be considered to be fairly satisfactory.

(d) PROVISION OF BUILDINGS. The Medical Inspection rooms at Brackley and Oundle are now completed, and the latter have been brought into use. The Brackley new Council School was finished and occupied in September, 1916. It is an open Corridor school, somewhat similar to the Schools at Towcester and Walgrave, but has an Assembly Hall which is at present used as a room for infants. There are two Departments—Mixed and Infants—and the plan is so arranged as to allow of extension in both Departments if necessary. The present building accommodates 90 children of Mixed School age, and 90 Infants including children in Standard I.

(e) PROVISION OF SPECTACLES. In regard to the arrangements made in January, 1916, for the examination of defective vision cases, Dr. Harries Jones saw 193 children, viz., 77 at Northampton, 59 at Wellingborough, 34 at Kettering, and 23 at Rushden. In 13 of these cases no glasses were ordered. All the other children, with the exception of two, have obtained spectacles, the two in question paying for them by instalments which were not completed at the end of the year. Three pairs of spectacles were supplied to the prescriptions of private medical practitioners, and 12 other pairs to children who were examined previous to 1916. During the year, 27 applications for assistance towards the payment of the examination fee and cost of spectacles were considered. In 13 cases the examination fee was remitted; in two cases the cost of spectacles was excused; and in 7 cases no charge for examination or provision of spectacles was made. In respect of 5 of the applications the Committee made no reduction.



**Extent of Medical Inspection.** The following table shows, on the plan of previous years, the full number of the public elementary school children who were examined during the year 1916, arranged in age-groups irrespective of sex, together with the corresponding figures for the year 1915, for the sake of comparison :—

								1915	1916
(i) No. of children newly examined between the ages of 3 and 4 years, routine inspections...								649	262
(ii.)	„	„	4	„	5	„	„	866	525
(iii.)	„	„	5	„	6	„	„	643	546
(iv.)	„	„	6	„	7	„	„	318	284
(v.)	„	„	7	„	8	„	„	79	61
(vi.)	„	„	8	„	9	„	„	44	35
(vii.)	„	„	9	„	10	„	„	37	26
(viii.)	„	„	10	„	11	„	„	37	15
(ix.)	„	„	11	„	12	„	„	162	62
(x.)	„	„	12	„	13	„	„	1581	534
(xi.)	„	„	13	„	14	„	„	154	111
(xii.)	„	„	14	„	15	„	„	1	6
(xiii.) No. of children at all ages, special inspections...								...	...
Totals								4571	2467

In regard to this table, it is to be noted, as for the year 1915, that no children are included under “Special Inspections.” This is due to the fact that children who would in ordinary circumstances have been included under that heading, have, owing to changes arising through the War, been included with other children among the re-examinations amounting to 2,116—1072 boys and 1044 girls. The percentage of parents attending at the examination of their children during the year was 57·6.

The distribution of the scholars who were examined, in respect of the several Urban and Rural Districts of the County, is shown in the following table ;—



PUBLIC HEALTH DISTRICTS.		Routine Inspections.				Special Inspections.		TOTALS.		
		Entrants.		Leavers						
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total.
Brackley	Borough	1	2	3	...	...	...	4	2	6
Daventry	„	11	9	1	1	...	...	12	10	22
Higham Ferrers	„	..	...	...	..	...	...	...	..	..
Desborough	Urban	70	60	3	9	...	...	73	69	142
Finedon	„	9	2	8	2	...	...	17	4	21
Irthlingborough	„	2	...	...	1	...	...	2	1	3
Oundle	„	20	23	14	19	...	...	34	42	76
Raunds	„	4	6	...	1	...	...	4	7	11
Rothwell	„	25	20	13	25	...	...	38	45	83
Rushden	„	17	19	13	11	...	...	30	30	60
Wellingborough	„	20	33	10	13	...	...	30	46	76
Brackley	Rural	4	9	1	1	...	...	5	10	15
Brixworth	„	134	140	27	52	...	...	161	192	353
Crick	„	49	53	24	17	...	...	73	70	143
Daventry	„	34	31	12	10	...	...	46	41	87
Easton-on-the-Hill	„	20	28	11	...	...	...	31	28	59
Gretton	„	23	20	10	5	...	...	33	25	58
Hardingstone	„	45	45	22	22	...	...	67	67	134
Kettering	„	43	33	20	32	...	...	63	65	128
Middleton Cheney	„	4	2	...	2	...	...	4	4	8
Northampton	„	69	78	34	48	...	...	103	126	229
Oundle	„	121	100	26	62	...	...	147	162	309
Oxendon	„	47	40	7	23	...	...	54	63	117
Potterspury	„	72	75	32	49	...	...	104	124	228
Thrapston	„	5	9	1	1	...	...	6	10	16
Towcester	„	37	31	2	13	...	...	39	44	83
Wellingborough	„	...	..	...	...	...	...	...	...	...
TOTALS .....		886	868	294	419	...	...	1180	1287	2467
		2467								

**Entrants and Leavers.** The following Table I. is in the form adopted from the year 1914, and deals in the present instance with no other groups of scholars than "Entrants" and "Leavers," owing to the circumstances of a greatly reduced inspecting staff.

TABLE I.

NUMBER OF CHILDREN INSPECTED FROM 1ST JANUARY TO 31ST DECEMBER, 1916. A "CODE" GROUPS.

ENTRANTS.							LEAVERS.					
Years	3	4	5	6	7-11	Total	11	12	13	14	Total	Grand Totals.
Boys	137	277	266	128	78	886	30	236	26	2	294	1180
Girls	125	248	280	156	59	868	32	298	85	4	419	1287
Totals	262	525	546	284	137	1754	62	534	111	6	713	2467

## B. GROUPS, OTHER THAN "CODE."

	Intermediate	Special Cases.	Re-examined.	Totals.
Boys .....	...	...	1072	1072
Girls .....	...	...	1044	1044
Totals .....	...	...	2116	2116





## NOTE.

In respect of the columns "Ages" and "No. Examined" certain of the children were not examined, viz.:—

Aged 3—4, 27 for Height, 36 for Weight.

" 4—5,	27	"	36	"
" 5—6,	18	"	25	"
" 6—7,	13	"	18	"
" 7—8,	1	"	6	"
" 8—9,	4	"	4	"
" 9—10,	3	"	3	"
" 10—11,	1	"	1	"
" 11—12,	4	"	8	"
" 12—13,	22	"	29	"
" 13—14,	3	"	3	"

AGES.	No. Examined	Sum of Heights.  (Inches.)	Average Height.		Sum of Weights.  (Lbs.)	Average Weight.	
			English (Inches.)	Metric (Centimetres.)		English (Lbs.)	Metric (Kilos.)
<b>COMBINED URBAN DISTRICTS :</b>							<b>TABLE II.</b>
<b>BOYS.</b>							
3—4 years of age...	21	687½	36	91.5	627½	33	15.0
4—5 " " ...	59	2155½	39	99.1	2019	36¾	16.7
5—6 " " ...	58	2347½	41	104.1	2160	37¾	17.1
6—7 " " ...	29	1173	43½	110.5	1171	43¼	19.6
7—8 " " ...	5	224	44¾	113.7	228	45½	20.6
8—9 " " ...	1	Not ex- amined			Not ex- amined		
9—10 " " ...	5	102	51	129.6	133½	66¾	30.3
10—11 " " ...	1	51	51	129.6	63	63	28.6
11—12 " " ...	6	209	52¼	132.7	254	63½	28.8
12—13 " " ...	57	3057½	55½	140.9	4036½	73¼	33.2
13—14 " " ...	2	113	56½	143.5	164	82	37.2
<b>GIRLS.</b>							
3—4 years of age...	39	1060	36½	92.7	988½	34	15.4
4—5 " " ...	58	2178	39½	100.3	1975½	35¾	16.2
5—6 " " ...	46	1709	41½	105.4	1626½	39½	17.9
6—7 " " ...	29	1161½	43	109.2	1136	42	19.0
7—8 " " ...	1	43	43	109.2	35	35	15.9
8—9 " " ...							
9—10 " " ...							
10—11 " " ...	1	52½	52½	133.3	56	56	25.4
11—12 " " ...	9	427½	53½	135.9	530	66¼	30.0
12—13 " " ...	57	2992½	55¼	140.3	3922½	72½	32.9
13—14 " " ...	15	860	57¼	145.4	1185	79	35.8
14—15 " " ...	1	60	60	152.4	83	83	37.6
<b>COMBINED RURAL DISTRICTS :</b>							<b>TABLE III.</b>
<b>BOYS.</b>							
3—4 years of age...	116	4072½	37¼	94.6	3495	33¼	15.1
4—5 " " ...	218	8151½	39¾	100.3	7475½	37	16.8
5—6 " " ...	208	8448½	41¾	106.1	7871	40	18.1
6—7 " " ...	99	4014	44	111.8	3858	43¾	19.8
7—8 " " ...	27	1234½	45¾	116.2	1153	48	21.8
8—9 " " ...	20	927½	48¾	123.8	1040½	54¾	24.8
9—10 " " ...	13	641½	49¼	125.1	714½	55	24.9
10—11 " " ...	6	267½	53½	135.9	347	69¼	31.4
11—12 " " ...	24	1291	53¾	136.5	1532½	69½	31.5
12—13 " " ...	179	9697½	56	142.2	12713	74¾	33.9
13—14 " " ...	24	1295½	56¼	142.9	1728½	75	34.0
14—15 " " ...	2	118½	59¼	150.5	178½	89¼	40.5
<b>GIRLS.</b>							
3—4 years of age...	86	2884	37	94.0	2384½	32½	14.7
4—5 " " ...	190	7229	39¾	100.9	6132	34½	15.6
5—6 " " ...	234	9592	42	106.7	8900	39	17.7
6—7 " " ...	127	5598	44¼	112.4	5222	42¼	19.1
7—8 " " ...	28	1225½	45¼	114.9	1154½	46	20.8
8—9 " " ...	14	559½	46½	118.1	579	48¼	21.9
9—10 " " ...	8	398½	49¾	126.4	436	54½	24.7
10—11 " " ...	7	364	52	132.1	401	57¼	25.9
11—12 " " ...	23	1182	53¾	136.5	1392	69½	31.5
12—13 " " ...	241	13010	56½	143.5	17286½	76½	34.7
13—14 " " ...	70	4013	59	149.9	5705½	83¾	38.0
14—15 " " ...	3	180	60	152.4	287½	95¾	43.4
2467							

## SECONDARY SCHOOLS.

TABLE IV.

Four girls were not examined for Height and Weight, viz.:—

2 Aged 12—13.

1 " 14—15.

1 " 15—16.

AGES.	No. Examined.	Sum of Heights.  (Inches).	Average Height.		Sum of Weights.  (Lbs.)	Average Weight.	
			English.	Metric.		English.	Metric.
			(Inches).	(Centimetres).		(Lbs.)	(Kilos).
GIRLS.							
5— 6 years of age...	1	45	45	114.3	43½	43½	19.7
6— 7     "     "     ...	2	94½	47¼	120.1	105½	52¾	23.9
7— 8     "     "     ...	1	45	45	114.3	46½	46½	21.1
8— 9     "     "     ...	13	633	48¾	123.8	744	57¼	25.9
9—10     "     "     ...	8	397½	49½	125.7	436½	54½	24.7
10—11   "     "     ...	6	330	55¾	139.7	443½	73¾	33.4
11—12   "     "     ...	33	1853	56¾	142.2	2449	74	33.5
12—13   "     "     ...	21	1098	57¼	146.7	1492	78½	35.6
13—14   "     "     ...	20	1199½	60	152.4	1819½	91	41.3
14—15   "     "     ...	15	854½	61	154.9	1326	94¾	43.0
15—16   "     "     ...	6	304½	60¾	154.3	515½	103	46.7
16—17   "     "     ...	2	124	62	157.5	184½	92¼	41.8
18—19   "     "     ...	1	65	65	165.1	132	132	59.9
129							

**HEIGHTS AND WEIGHTS.** The facts as to heights and weights of the children examined in 1916, in respect of both sexes and also of the Combined Urban and Rural Districts respectively, are shown together in the accompanying Tables II. and III. Where the numbers in the groups are sufficiently large for the avoidance of error, the averages in respect of both height and weight are certainly satisfactory, and bear favourable comparison with previous years.

**CLOTHING AND CLEANLINESS.** The total percentages of 99·31 and 98·74 for satisfactory Clothing and Footgear respectively, as shown in Table V., are improvements on those for the two preceding years. The facts as to insufficiency of clothing or want of cleanliness have always been brought to the notice of parents, on whom pressure by the Head Teachers has been generally successfully exercised. The percentage of 96·36 for cleanliness of body is fair—better than for the year 1915, though 1·0 less good than for 1914 ; but the rate of 89·34 per cent. for cleanliness of head is quite unsatisfactory, the rate of uncleanness among the girl leavers being 15·7 per cent., as against 12·8 in 1915, and 9·4 for 1914.

**NUTRITION.** It is satisfactory to record that “ bad ” nutrition was found in only one case,—an entrant—and that the percentages for excellent and normal nutrition were higher in the year 1916 than in the year preceding. The total percentage of nutrition reckoned to be “ below normal ” was 3·40, as against 4·62 for the year 1915. These are satisfactory points, when considered in connection with the increased cost of food during the year 1916.

**NOSE AND THROAT.** As compared with the year 1915, the medical examiner being the same, the figures in respect of nasopharyngeal trouble are much more favourable. The rate of freedom

from defect was 76·81 per cent., as against 68·74 per cent.; the proportion of mouth-breathers 3·81, as against 4·62; the rate of total tonsillar enlargement 19·81, as against 28·29; and the total presence of adenoids 10·29, as against 11·43. In connection with this portion of the medical examination of school children, I feel constrained to emphasise the importance which attaches to the maintenance of regular instruction in breathing exercises, in the interests of the children.

**EXTERNAL EYE DISEASE.** Under this heading are included such ailments as blepharitis (inflammation of the eyelids), conjunctivitis, diseases of the cornea and lens, and muscular defects such as squints, nystagmus, and twitchings. The rate of freedom from such defects amounted to 97·98 of the children examined; but there was a rate of 1·54 per cent. for blepharitis, which was only slightly less than for the year 1915. In 1914, the rate for blepharitis was only 0·72 per cent.

**EAR DISEASE AND HEARING.** The absence of serious ear disease is highly satisfactory, the rate being 99·28 per cent. of the children examined, and normal hearing was at the rate of 99·64 per cent. No child was recorded as being deaf and dumb.

**TEETH.** There is not much variation to record in respect of the proportion of sound to decayed teeth, in comparison with preceding years—the rate of children with sound teeth for the year 1916 being 33·52 per cent., as against 35·80 per cent. in 1915, and 31·71 per cent. in 1914. No case of sepsis was recorded, and I am glad to note that the proportion of children with dirty teeth was less than in the year 1915—being 37·29 per cent. as against 45·0 per cent. The following shows the distribution of the children with dirty teeth :—



TABLE V. RETURN SHOWING PHYSICAL CONDITION OF CHILDREN INSPECTED.  
TOTAL (URBAN AND RURAL DISTRICTS COMBINED).

CONDITION.		ENTRANTS.				LEAVERS.				TOTAL.			
		Boys.	Girls.	Total.	Per Cent.	Boys.	Girls.	Total.	Per Cent.	Boys.	Girls.	Total.	Per Cent.
Total Inspected		886	868	1754	...	294	419	713	...	1180	1287	2467	...
CLOTHING .....	Satisfactory..... Unsatisfactory .....	873 13	866 2	1739 15	99·14 ·86	293 1	418 1	711 2	99·72 ·28	1166 14	1284 3	2450 17	99·31 ·69
FOOTGEAR .....	Satisfactory..... Unsatisfactory .....	862 24	866 2	1728 26	98·52 1·48	292 2	416 3	708 5	99·30 ·70	1154 26	1282 5	2436 31	98·74 1·26
CLEANLINESS OF HEAD	Clean (i.e., no nits or pediculi).	849	710	1559	88·88	292	353	645	90·46	1141	1063	2204	89·34
	Nits only.....	33	149	182	10·38	2	64	66	9·26	35	213	248	10·05
	Pediculi.....	4	9	13	·74	...	2	2	·28	4	11	15	·61
CLEANLINESS OF BODY	Clean .....	848	846	1694	96·58	282	401	683	95·79	1130	1247	2377	96·36
	Dirty .....	31	20	54	3·08	11	18	29	4·07	45	38	83	3·36
	Pediculi present	4	2	6	·34	1	...	1	·14	5	2	7	·28
NUTRITION .....	Excellent .....	6	3	9	·51	3	...	3	·42	9	3	12	·49
	Normal .....	844	834	1678	95·67	283	409	692	97·06	1127	1243	2370	96·07
	Below Normal.....	35	31	66	3·76	8	10	18	2·52	43	41	84	3·40
	Bad .....	1	...	1	·06	...	...	...	...	1	...	1	·04
NOSE AND THROAT	No defect .....	684	629	1313	74·86	244	338	582	81·63	928	967	1895	76·81
	Mouth Breathers ...	30	51	81	4·62	5	8	13	1·82	35	59	94	3·81
	Tonsils slightly enlarged .....	148	152	300	17·10	41	59	100	14·03	189	211	400	16·21
	Tonsils much enlarged .....	26	45	71	4·05	3	15	18	2·52	29	60	89	3·60
	Adenoids, slight .....	91	113	204	11·63	10	13	23	3·23	101	126	227	9·20
	Adenoids, marked ...	11	16	27	1·54	...	...	...	...	11	16	27	1·09
EXTERNAL EYE DISEASE	No disease .....	871	847	1718	97·95	292	407	699	98·04	1163	1254	2417	97·98
	Blepharitis .....	13	14	27	1·54	1	10	11	1·54	14	24	38	1·54
	Conjunctivitis .....	...	2	2	·11	1	1	2	·28	1	3	4	·16
	Corneal Opacities ...	1	...	1	·06	...	...	...	...	1	...	1	·04
	Other disease .....	1	5	6	·34	...	1	1	·14	1	6	7	·28
EAR DISEASE.....	No disease .....	882	858	1740	99·21	292	417	709	99·44	1174	1275	2449	99·28
	Obstruction—Right .....	...	1	1	·06	...	...	...	...	...	1	1	·04
	Obstruction—Left .....	...	...	...	...	...	...	...	...	...	...	...	...
	Otorrhœa—Right ...	3	3	6	·34	1	1	2	·28	4	4	8	·32
	Otorrhœa—Left .....	...	5	5	·28	...	...	...	...	...	5	5	·20
	Other disease .....	1	1	2	·11	1	1	2	·28	2	2	4	·16
TEETH .....	Sound .....	311	285	596	33·98	94	137	231	32·40	405	422	827	33·52
	Less than 4 decayed	303	292	595	33·92	156	233	389	54·56	459	525	984	39·89
	Four or more decayed	272	291	563	32·10	44	49	93	13·04	316	340	656	26·59
	Sepsis .....	...	...	...	...	...	...	...	...	...	...	...	...
HEART AND CIRCULATION	No disease .....	833	805	1638	93·39	270	376	646	90·61	1103	1181	2284	92·58
	Organic disease .....	26	30	56	3·19	10	10	20	2·80	36	40	76	3·08
	Functional disease ...	5	5	10	0·57	2	2	4	·56	7	7	14	·57
	Anæmia .....	21	28	49	2·79	12	29	41	5·75	33	57	90	3·65
	Other defects .....	1	...	1	·06	...	2	2	·28	1	2	3	·12
LUNGS .....	No disease .....	792	793	1585	90·38	278	401	679	95·23	1070	1194	2264	91·78
	Chronic Bronchitis & Bronchial Catarrh...	55	38	93	5·30	1	3	4	·56	56	41	97	3·93
	Tuberculosis .....	2	3	5	·28	2	...	2	·28	4	3	7	·28
	Tuberculosis suspected .....	2	3	5	·28	...	3	3	·42	2	6	8	·32
	Other disease .....	35	31	66	3·76	13	12	25	3·51	48	43	91	3·69
NERVOUS SYSTEM	No disease .....	884	864	1748	99·66	292	415	707	99·16	1176	1279	2455	99·51
	Epilepsy, Minor .....	...	...	...	...	1	...	1	·14	1	...	1	·04
	Chorea .....	...	...	...	...	...	1	1	·14	...	1	1	·04
	Other disease .....	2	4	6	·34	1	3	4	·56	3	7	10	·41
SKIN .....	No disease .....	878	858	1736	98·98	293	416	709	99·44	1171	1274	2445	99·11
	Ringworm, Body ...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringworm, Head ...	4	2	6	·34	...	...	...	...	4	2	6	·24
	Impetigo .....	4	8	12	·68	1	3	4	·56	5	11	16	·65
	Scabies .....	...	...	...	...	...	...	...	...	...	...	...	...
	Other disease .....	...	...	...	...	...	...	...	...	...	...	...	...
RICKETS.....	No disease .....	886	867	1753	99·94	294	419	713	100·00	1180	1286	2466	99·96
	Slight .....	...	1	1	·06	...	...	...	...	...	1	1	·04
	Marked .....	...	...	...	...	...	...	...	...	...	...	...	...
DEFORMITIES ...	No deformity .....	871	854	1725	98·35	291	414	705	98·88	1162	1268	2430	98·50
	Deformity present ...	15	14	29	1·65	3	5	8	1·12	18	19	37	1·50
TUBERCULOSIS Non-Pulmonary	No disease .....	885	868	1753	99·94	294	419	713	100·00	1179	1287	2466	99·96
	Glandular .....	1	...	1	·06	...	...	...	...	1	...	1	·04
	Bones and Joints ...	...	...	...	...	...	...	...	...	...	...	...	...
	Other Forms .....	...	...	...	...	...	...	...	...	...	...	...	...
SPEECH .....	Not Defective .....	860	852	1712	97·61	292	418	710	99·58	1152	1270	2422	98·18
	Defective Articulation .....	25	15	40	2·28	1	1	2	·28	26	16	42	1·70
	Stammering .....	1	1	2	·11	1	...	1	·14	2	1	3	·12
MENTAL CONDITION	Normal .....	869	857	1726	98·40	272	387	659	92·43	1141	1244	2385	96·68
	Dull or Backward, all grades .....	14	10	24	1·37	20	30	50	7·01	34	40	74	3·00
	Mentally Defective...	3	1	4	·23	2	2	4	·56	5	3	8	·32
VISION.....	6/6 each eye (Normal Vision) ...	...	...	...	...	215	294	509	71·39	...	...	...	...
	6/6 Right .....	...	...	...	...	22	36	58	8·14	...	...	...	...
	6/6 Left .....	...	...	...	...	11	13	24	3·37	...	...	...	...
	6/9 Right .....	...	...	...	...	43	56	99	13·89	...	...	...	...
	6/9 Left .....	...	...	...	...	46	71	117	16·41	...	...	...	...
	6/12 Right .....	...	...	...	...	3	14	17	2·38	...	...	...	...
	6/12 Left .....	...	...	...	...	5	15	20	2·80	...	...	...	...
	6/18 Right .....	...	...	...	...	4	5	9	1·26	...	...	...	...
	6/18 Left .....	...	...	...	...	11	10	21	2·95	...	...	...	...
	6/24 Right .....	...	...	...	...	3	8	11	1·54	...	...	...	...
	6/24 Left .....	...	...	...	...	3	7	10	1·40	...	...	...	...
	6/36 Right .....	...	...	...	...	3	5	8	1·12	...	...	...	...
	6/36 Left .....	...	...	...	...	3	5	8	1·12	...	...	...	...
	6/60 Right .....	...	...	...	...	...	...	...	...	...	...	...	...
	6/60 Left .....	...	...	...	...	...	...	...	...	...	...	...	...
6/0 Right .....	...	...	...	...	1	1	2	·28	...	...	...	...	
6/0 Left .....	...	...	...	...	...	4	4	·56	...	...	...	...	
SQUINT .....		20	18	38	2·17	...	1	1	·14	20	19	39	1·58
HEARING (Whisper)	20 ft. each Ear (Normal Hearing)	885	864	1749	99·71	291	418	709	99·44	1176	1282	2458	99·64
	20 ft. Right.....	...	1	1	·06	1	...	1	·14	1	1	2	·08
	20 ft. Left .....	1	3	4	·23	2	1	3	·42	3	4	7	·28
	10 ft. Right.....	1	2	3	·17	1	...	1	·14	2	2	4	·16
	10 ft. Left .....	...	1	1	·06	1	...	1	·14	1	1	2	·08
	5 ft. Right.....	...	1	1	·06	1	1	2	·28	1	2	3	·12
	5 ft. Left .....	...	...	...	...	...	...	...	...	...	...	...	...





## DIRTY TEETH.

	ENTRANTS.		LEAVERS.	
	URBAN.	RURAL.	URBAN.	RURAL.
Boys .....	65	225	42	133
Girls .....	45	185	46	179

DEFORMITY AND DISEASE. The amount of discoverable deformity among the children examined was below the average and did not amount to more than 1·5 per cent. This is very satisfactory, nor was there any deformity outside the list of those enumerated by me in previous reports. In respect of more specially defined diseases, however, the proportions for organic disease of the heart and circulation and for anæmia were somewhat high; there was rather less of chronic bronchitis and bronchial catarrh than in the preceding year, as well as of tuberculosis; only 22 cases of skin disease, of which 6 were Ringworm; and only 1 slight case of Rickets. These records are, therefore, generally satisfactory, the only disturbing element being in respect of the greater proportion of observable anæmia; as to this latter condition being in greater evidence than previously there is no ground at present for regarding it with special concern, though it is a matter that will need to be kept under observation in the future.

SPEECH. There was a lower rate for defective articulation than for several years past, the rate for 1916 being 1·7 per cent. as against 2·78 per cent. in 1915, 1·76 per cent. in 1914, 2·04 per cent. in 1913, 2·4 per cent. in 1912, and 5·0 per cent. in 1911.

MENTAL CONDITION. The rate of normal mental condition shows considerable improvement as compared with that recorded for the preceding year, the rate for 1916 being 96·68 per cent. of the children examined, as against 93·91 per cent. in 1915. There



was a percentage, therefore, of only 3 dull or backward children (all grades), and of 0·32 mentally defective. These are satisfactory records.

**VISION.** As for the year 1915, "Leavers" only were examined for eyesight. The rate for normal vision—71·39 per cent.—was higher than during the two preceding years, and may be regarded with some satisfaction. The rates for 1915 and 1914 were, respectively, 67·27 per cent. and 67·02 per cent. The rate for Squint also, among the "Leavers," for the year 1916 was 0·14 per cent., as against 0·42 per cent. in 1915, and 0·59 per cent. in 1914. There was no case of total blindness.

**Secondary School Inspections.** The number of Scholars examined in the Secondary Schools during the year was 129, all of whom were girls. The Schools to which they belonged were the Kettering High School and the Wellingborough County High School for girls. In addition there were 55 girls re-examined. The summarised records as to their heights and weights have been shown already in Table IV. of this report, and it only remains to submit the following records as to defects found among them and the condition of their vision on examination. In respect of this last, it is very satisfactory to note that, as in the case of the public elementary scholars, the rate of normal vision shows an improvement on the record for the preceding year,—75·98 per cent. for 1916, as against 72·66 per cent. in 1915. In regard to defects, other than of vision, there were seven cases of anæmia and two of organic disease of the heart, two cases of chronic bronchial catarrh, two of defective articulation, five of deformities, and three of much enlarged tonsils. There were no other serious defects noted; but it is regrettable that six instances of uncleanness of the head (Nits only), and 19 of uncleanness of teeth, should be found in Secondary Schools at all.

## SECONDARY SCHOOLS.

CONDITION.		BOYS.	GIRLS.	TOTAL.	PER CENT.
VISION—					
6/6	each eye (Normal Vision) ...	...	98	<b>98</b>	75.98
6/	Right .....	...	9	<b>9</b>	6.98
/6	Left .....	...	10	<b>10</b>	7.75
6/	Right .....	...	14	<b>14</b>	10.85
/9	Left .....	...	13	<b>13</b>	10.08
6/	Right .....	...	3	<b>3</b>	2.33
/12	Left .....	...	1	<b>1</b>	.77
6/	Right .....	...	2	<b>2</b>	1.55
/18	Left .....	...	4	<b>4</b>	3.10
6/	Right .....	...	1	<b>1</b>	.77
/24	Left .....	...	1	<b>1</b>	.77
6/	Right .....	...	1	<b>1</b>	.77
/36	Left .....	...	2	<b>2</b>	1.55
6/	Right .....	...	1	<b>1</b>	.77
/60	Left .....	..	..	...	...
6/	Right .....	...	...	...	...
/0	Left .....	...	...	...	...
Squint	.....	...	2	<b>2</b>	1.55

**Treatment after Inspections.** On Tables VI. and VII. are given the figures as to treatment of public elementary and secondary scholars respectively who were found with defects. The particulars in respect of the public elementary scholars are separated into groups distinguishing between urban and rural residence. There was a total of 693 children during the year 1916 having 695 defects requiring remedy ; of these, 306 with 308 defects belonged to the urban districts, and 387 with the like number of defects belonged to the rural districts. In the secondary schools there were 33 girls with the like number of defects. Fully 49 per cent. of the public elementary scholars had not been treated, or were not under treatment by the end of the year, and the proportion of non-treatment was much higher in the rural than in the urban districts. This is largely to be accounted for by the serious depletion of medical services brought about through the war ; but it is none the less imperative that there should be some efficient scheme formulated for the regular following up of children requiring treatment.

CHARLES E. PAGET,

*County Medical Officer of Health.*

COUNTY HALL,

NORTHAMPTON,

MARCH 24TH, 1916.



PARTICULARS AS TO TREATMENT  
COMBINED URBAN DISTRICTS.

TABLE VI.

ROUTINE INSPECTIONS, 1916.

	Enlarged Tonsils and Obstruction to Breathing	Defective Vision	Ear Discharge	Deafness	Irregular and Carious Teeth	External Eye Disease	Ringworm	Other Diseases or Defects	TOTALS.
No. of children in respect of whom parents were circularised .....	...	...	...	...	...	...	...	...	306
No. of children with .....	70	162	14	12	16	6	1	27	308
Treated by Private Medical Practitioner ...	14	11	8	1	...	1	...	11	46
Treated at Hospital.....	3	...	...	...	...	3	...	1	7
Treated at Home .....	...	...	...	...	...	...	...	...	...
Under Treatment at present.....	1	...	...	2	...	...	...	2	5
Cured .....	...	...	2	...	...	1	1	2	6
Teeth extracted (or otherwise treated) .....	...	...	...	...	6	...	...	...	6
Operation (performed privately) .....	1	...	...	...	...	...	...	...	1
Operation (performed at Hospital) .....	10	...	...	1	...	...	...	1	12
Operation (place not given) .....	6	...	...	...	...	...	...	...	6
Treated by School Medical Officer .....	...	81	...	...	...	...	...	...	81
Awaiting Treatment by School Medical Officer .....	...	6	...	...	...	...	...	...	6
Could not afford Treatment .....	...	...	...	...	...	...	...	...	...
No Information .....	7	14	2	...	...	...	...	1	24
Died .....	...	...	...	...	...	...	...	...	...
Left .....	3	5	...	1	4	...	...	1	14
Nothing done .....	25	45	2	7	6	1	...	8	94

COMBINED RURAL DISTRICTS.

ROUTINE INSPECTIONS, 1916.

No. of children in respect of whom parents were circularised .....	...	...	...	...	...	...	...	...	387
No. of children with .....	98	206	4	3	11	7	1	57	387
Treated by Private Medical Practitioner ...	8	8	1	...	1	2	...	19	39
Treated at Hospital.....	4	...	...	...	...	...	...	...	4
Treated at Home .....	...	...	...	...	...	...	...	...	...
Under Treatment at present.....	1	...	...	...	...	1	...	1	3
Cured .....	1	...	...	...	...	...	1	6	8
Teeth extracted (or otherwise treated) .....	...	...	...	...	2	...	...	...	2
Operation (performed privately) .....	1	...	...	...	...	...	...	...	1
Operation (performed at Hospital) .....	14	...	...	...	...	...	...	2	16
Operation (place not given) .....	12	...	...	...	...	...	...	...	12
Treated by School Medical Officer .....	...	72	...	...	...	...	...	...	72
Awaiting Treatment by School Medical Officer .....	...	21	...	...	...	...	...	...	21
Could not afford Treatment .....	...	...	...	...	...	...	...	...	...
No Information .....	22	13	1	...	2	1	...	12	51
Died .....	...	...	...	...	...	...	...	...	...
Left .....	4	2	1	...	2	...	...	3	12
Nothing done .....	31	90	1	3	4	3	...	14	146

SECONDARY SCHOOLS.

TABLE VII.

	Enlarged Tonsils and Obstruction to Breathing	Defective Vision.	Ear Discharge.	Deafness.	Irregular and Carious Teeth.	External Eye Disease.	Ringworm.	Other Diseases or Defects.	TOTALS.
No. of children in respect of whom parents were circularised .....	...	...	...	...	...	...	...	...	33
No. of children with .....	1	10	...	1	19	...	...	2	33
Treated by Private Medical Practitioner ...	...	...	...	...	...	...	...	1	1
Treated at Hospital.....	...	...	...	...	...	...	...	...	...
Treated at Home .....	...	...	...	...	...	...	...	...	...
Under Treatment at present.....	...	...	...	...	...	...	...	...	...
Cured .....	...	...	...	...	7	...	...	...	7
Had New Glasses (place not given).....	...	5	...	...	...	...	...	...	5
Teeth extracted (or otherwise treated) .....	...	...	...	...	...	...	...	...	...
Operation (performed privately) .....	...	...	...	...	...	...	...	...	...
Operation (performed at Hospital) .....	...	...	...	...	...	...	...	...	...
Operation (place not given) .....	...	...	...	...	...	...	...	...	...
Treated by School Medical Officer .....	...	...	...	...	...	...	...	...	...
Awaiting Treatment by School Medical Officer .....	...	...	...	...	...	...	...	...	...
Could not afford Treatment .....	...	...	...	...	...	...	...	...	...
No Information .....	...	3	...	1	5	...	...	1	10
Died .....	...	...	...	...	...	...	...	...	...
Left .....	...	...	...	...	...	...	...	...	...
Nothing done .....	1	2	...	...	7	...	...	...	10





